

# MTREPORT 4.0

## User's Manual



## General description

MTReport 4.0 is a software utility for analysing report files generated by MetaTrader.

MetaTrader is a Windows application by MetaQuotes Software Corporation, a company that develops and implements professional, high quality online trading platforms for automated online brokerage services in Forex, CFD, and Futures markets ([www.metaquotes.net](http://www.metaquotes.net)).

After a period of trading with MetaTrader, either on a demo or a live account, a trading statement can be generated by MetaTrader. The statement is called a *report* and it is saved in HTML format, so it can be viewed in browsers like IE or FireFox. Since the report is just a list of trades, it is not always easy to assess the merits of your trading strategy just by looking at the trade list. For instance, when you are trading multiple currencies, the trades on one currency pair may have been profitable, while trading another pair may have resulted in a loss. It is not easy to find this kind of information in the report.

With MTReport 4.0 it is possible to load the report and analyse the information it contains. It will display information in various forms, using the currency pairs you select with a single mouse click.

## Installing MTReport 4.0

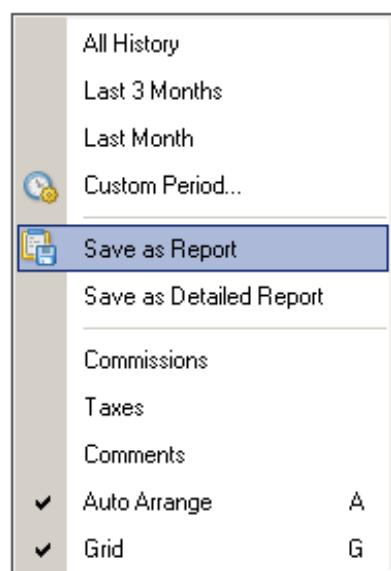
Installing MTReport 4.0 is easy. Just download the setup program from [www.mt4tools.com](http://www.mt4tools.com). This setup program will install MTReport 4.0 for you. Shortcuts will be created on your desktop and in your start menu, so it will be easy to start the program.

## Generating a report with MetaTrader

MTReport 4.0 works with reports generated by MetaTrader versions 3 or 4. The MetaTrader client has a section called *Terminal*, which is on the bottom of the MetaTrader window. In the Terminal window, click the tab *Account History* to display a list of closed trades.

With MetaTrader 4 it is possible to sort the trade list by clicking the header of the trade list. Trades will be sorted depending on the column you click. The generated report will be in the same order as displayed on the screen. By default, trades are sorted on closing date/time.

If you want to view comments, commissions, or taxes (MetaTrader 4), right-click the trade list and check the appropriate option. Magic numbers in MetaTrader 4 will be entered in the report when the *Comments* option is checked.



Right-click the trade list, and select the period you want to use. You can select *All History* to see all trades, but you can also specify a period like *Last Month*.

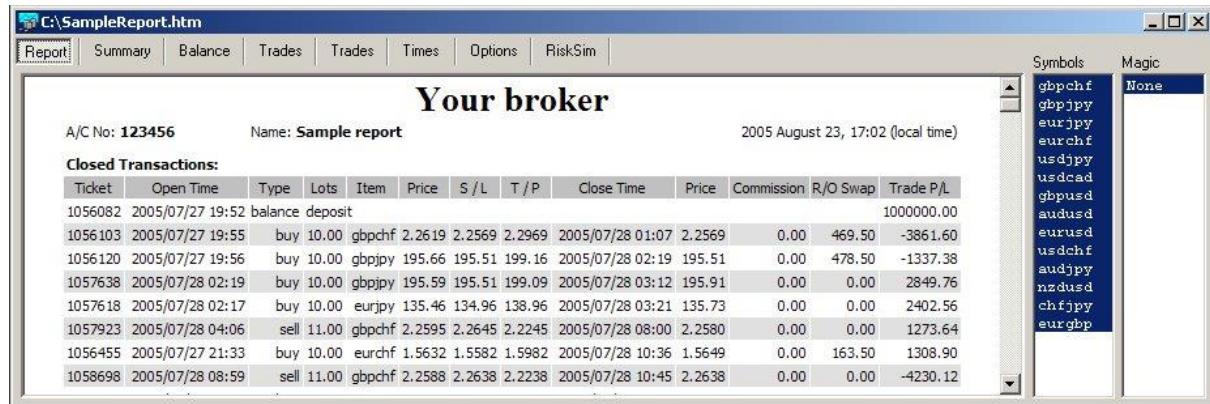
### **Generating a report**

Right-click again, and select *Save as report*. Select the name and location of the file you want to use for your report and click *Save*. The default extension for the report file is *.htm*. It may happen that MetaTrader opens your default web browser to display the report. You may ignore this.

It is also possible to create a detailed report, which contains more information, including a graph of the balance. MTReport 4.0 accepts both normal and detailed reports. For analysis it will make no difference which format you use.

## Using MTReport 4.0

Double-click the MTReport icon on your desktop. Choose *File -> Open report* from the menu, or click the left button in the toolbar, and select the report you have generated. A window will open, displaying the report as generated by MetaTrader.



The window also contains two listboxes, and a number of tabs. Both the listboxes and tabs will be discussed here one by one.

### Symbols list

This list displays the symbols for which there are trades in the report. Some reports will have many different symbols, like the sample above. Other reports, like StrategyTester reports may only have one symbol displayed in the listbox.

You can select one or more symbols in the list. Try clicking, and moving your mouse pointer holding down the left mouse button, or click and hold down the shift or ctrl button on your keyboard.

### Magic numbers list

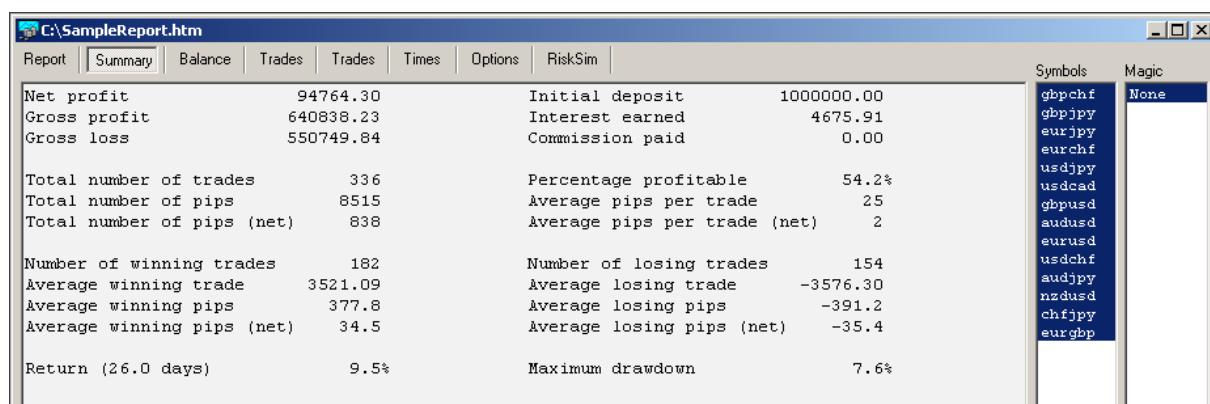
This list displays magic numbers, if they are used in the reports. Magic numbers are only used in some Expert Advisors for MetaTrader 4. Don't worry if you never see a magic number in this list. Many people never use them,

### Report tab

This tab will show the original report, as generated by the MetaTrader client. Selecting symbols or magic numbers will not change the view of the original report.

### Summary tab

This tab will show a summary for your report. The amount of information may vary per report.



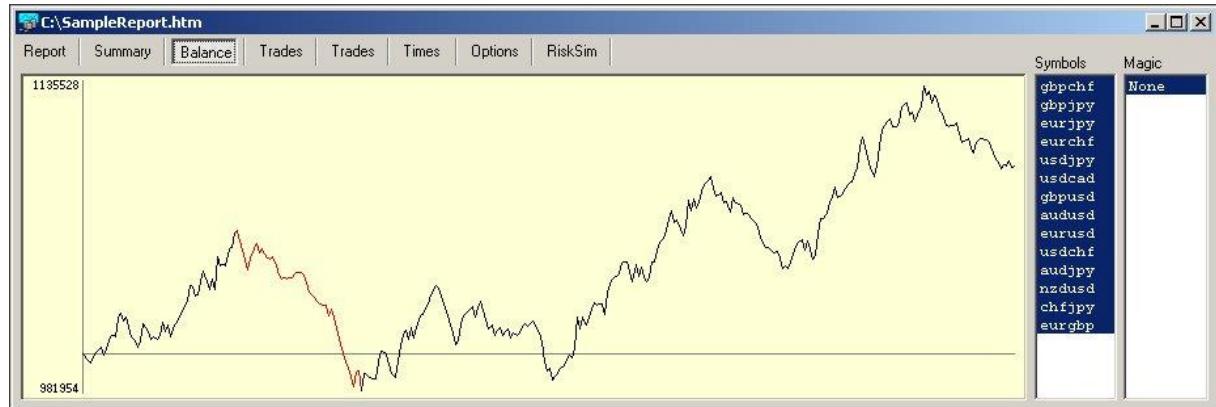
Some reports have no information for the initial deposit. Without that information, the return percentage or the drawdown percentage cannot be calculated. If you want to see these numbers

anyway, select the *Options* tab, check the *Initial deposit* checkbox, and fill in a deposit amount. Activate the summary tab again to view the return and drawdown percentages.

Other information, like extra deposits, fees, withdrawals, or rebates will only be shown if this information is available in the report.

### Balance tab

This tab will show a graph of the balance of your trades. Part of the graph may be red, which denotes the trades where the maximum relative drawdown has happened.



### Trades tabs

There are two *Trades* tabs, to show information about trades for the selected symbols and magic numbers.

Ticket	Type	Lots	Symbol	Open date	Time	Open	Close date	Time	Close	Duration	Pips	Profit	Balance
1056103	buy	10.00	gbpchf	2005/07/27	19:55	2.2619	2005/07/28	01:07	2.2563	5:13	-50	-3861.60	996607.90
1056120	buy	10.00	gbpjpy	2005/07/27	19:56	195.66	2005/07/28	02:19	195.51	6:24	-15	-1337.38	995749.02
1057638	buy	10.00	gbpjpy	2005/07/28	02:19	195.59	2005/07/28	03:12	195.91	0:53	32	2849.76	998598.78
1057618	buy	10.00	eurjpy	2005/07/28	02:17	135.46	2005/07/28	03:21	135.73	1:04	27	2402.56	1001001.34
1057923	sell	11.00	gbpchf	2005/07/28	04:06	2.2595	2005/07/28	08:00	2.2580	3:55	15	1273.64	1002274.98
1056455	buy	10.00	eurchf	2005/07/27	21:33	1.5632	2005/07/28	10:36	1.5649	13:03	17	1308.90	1003747.38
1058698	sell	11.00	gbpchf	2005/07/28	08:59	2.2588	2005/07/28	10:45	2.2638	1:46	-50	-4230.12	999517.26
1058971	buy	11.00	eurjpy	2005/07/28	09:14	135.64	2005/07/28	12:01	135.96	2:47	32	3122.78	1002640.04
1058067	buy	11.00	gbpjpy	2005/07/28	05:02	195.93	2005/07/28	12:01	196.58	7:00	65	6343.15	1008983.19
1056091	buy	10.00	usdpy	2005/07/27	19:53	112.31	2005/07/28	14:17	112.36	18:24	5	445.00	1009559.89
1056085	buy	10.00	usdcad	2005/07/27	19:53	1.2341	2005/07/28	14:51	1.2334	18:59	-7	-567.54	1008934.75
1057440	buy	10.00	gbpusd	2005/07/28	01:22	1.7427	2005/07/28	15:13	1.7518	13:52	91	9100.00	1018034.75
1060746	buy	11.00	usdcad	2005/07/28	14:51	1.2339	2005/07/28	15:45	1.2366	0:54	27	2401.75	1020436.50
1059717	sell	10.00	gbpchf	2005/07/28	11:58	2.2606	2005/07/28	17:27	2.2656	5:29	-50	-3863.69	1016572.81
1061346	buy	11.00	usdcad	2005/07/28	16:11	1.2355	2005/07/28	17:27	1.2377	1:16	22	1955.24	1018528.05
1062077	buy	11.00	usdcad	2005/07/28	18:19	1.2355	2005/07/28	19:41	1.2305	1:23	-50	-4469.73	1014058.32
1058217	sell	10.00	usdcad	2005/07/27	21:15	0.7559	2005/07/29	07:00	0.7560	22:51	En	En	1000000.00

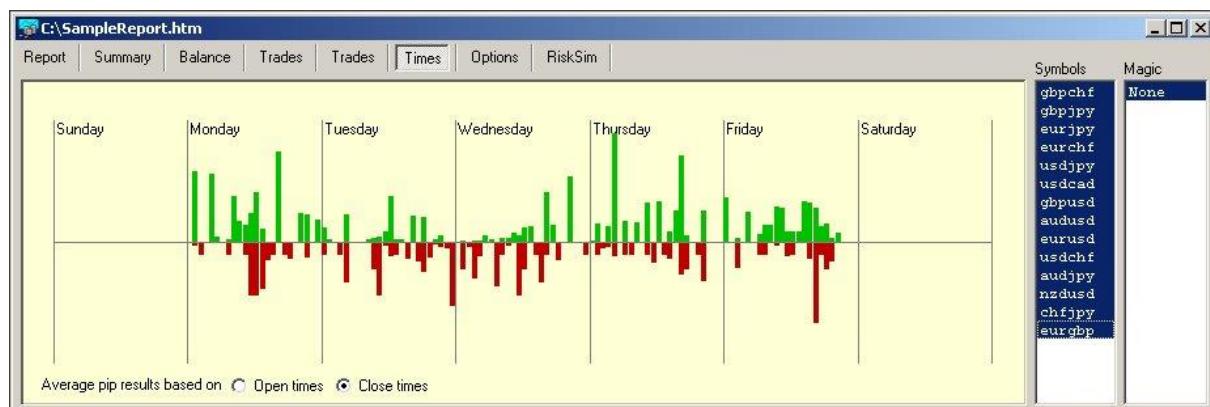
Ticket	Type	Lots	Symbol	Open	S/L	T/P	Close	Comm	Swap	Profit	Comment	Magic
1056088	sell	10.00	eurgbp	0.6914	0.6897	0.6564	0.6897	0.00	167.30	3003.73		
1056085	buy	10.00	usdcad	1.2341	1.2334	1.2691	1.2334	0.00	-57.60	-567.54		
1056091	buy	10.00	usdpy	112.31	112.36	115.81	112.36	0.00	131.70	445.00		
1056103	buy	10.00	gbpchf	2.2619	2.2569	2.2969	2.2569	0.00	469.50	-3861.60		
1056120	buy	10.00	gbpjpy	195.66	195.51	199.16	195.51	0.00	478.50	-1337.38		
1056421	sell	10.00	audusd	0.7559	0.7609	0.7209	0.7609	0.00	-225.00	-5000.00		
1056455	buy	10.00	eurchf	1.5632	1.5582	1.5982	1.5649	0.00	163.50	1308.90		
1057440	buy	10.00	gbpusd	1.7427	1.7403	1.7777	1.7518	0.00	0.00	9100.00		
1057618	buy	10.00	eurjpy	135.46	134.96	138.96	135.73	0.00	0.00	2402.56		
1057638	buy	10.00	gbpjpy	195.59	195.51	199.09	195.91	0.00	0.00	2849.76		
1057923	sell	11.00	gbpchf	2.2595	2.2645	2.2245	2.2580	0.00	0.00	1273.64		
1058067	buy	11.00	gbpjpy	195.93	195.80	199.43	196.58	0.00	0.00	6343.15		
1058687	sell	11.00	usdchf	1.2961	1.2884	1.2611	1.2884	0.00	-43.23	6574.05		
1058694	buy	11.00	eurusd	1.2064	1.2043	1.2414	1.2139	0.00	0.00	8250.00		
1058698	sell	11.00	gbpchf	2.2588	2.2638	2.2238	2.2638	0.00	0.00	-4230.12		
1058971	buy	11.00	eurjpy	135.64	135.50	139.14	135.96	0.00	0.00	3122.78		
1059717	sell	10.00	gbpchf	2.2619	2.2569	2.2245	2.2580	0.00	0.00	3029.60		

By default, the trades list is sorted on close date/time. You can sort the list on ticket, lots, duration, pips, or open or closing date/time by double clicking the appropriate cells on the header of the list.

Both 1-pip and 1/10-pip reports are allowed. Pip-counts will have the same accuracy as the pip-values in the original report. You can delete trades from the list by selecting one or more trades, and pressing *Delete* on your keyboard.

### Times tab

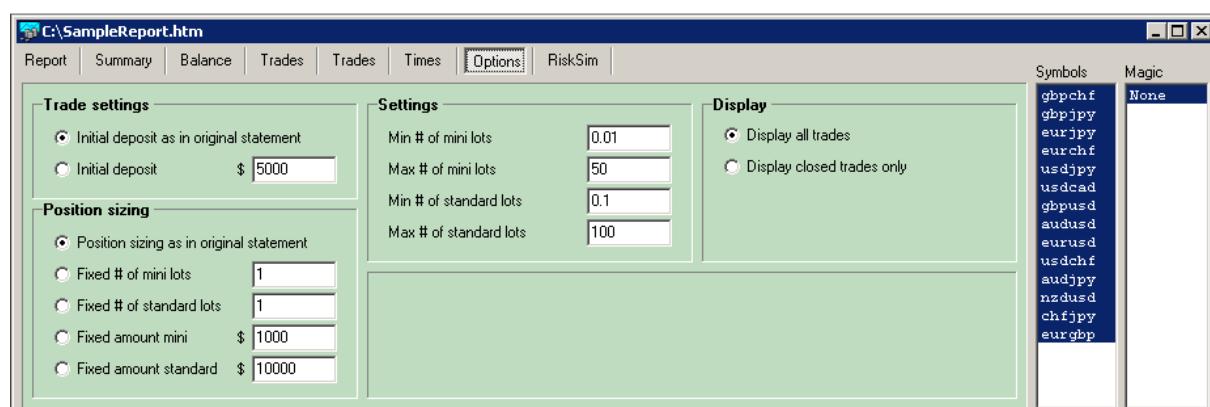
This tab shows the profits and losses per hour of the week. By clicking the appropriate radiobutton, you can select to use open or closing dates and times.



Note that the used time in the MetaTrader report is your brokers time.

### Options tab

This tab is used for setting some options.



The *Trade settings* section is used for changing the initial deposit used for the trades. For instance, if you would like to know the return of the trades with another initial deposit, just check the checkbox, and fill in your new deposit. The summary and the trades list will be updated immediately.

To save the value for initial deposit, double-click the edit box. The next time MTReport is started, the saved value will be used.

The *Position sizing* section allows you to change the number of lots used for your trades. You can select a fixed number of lots per trade, with either a mini (\$10000/lot) or a standard (\$100000/lot) account. You can also select a compounding number of lots, using the fixed amount settings. For example, if the *Fixed amount mini* is \$1000, then one mini lot will be traded for every \$1000 of the balance.

The *Settings* section allows you to select the minimum and maximum amount of lots to trade. The minimum amount is also the lot step that will be used.

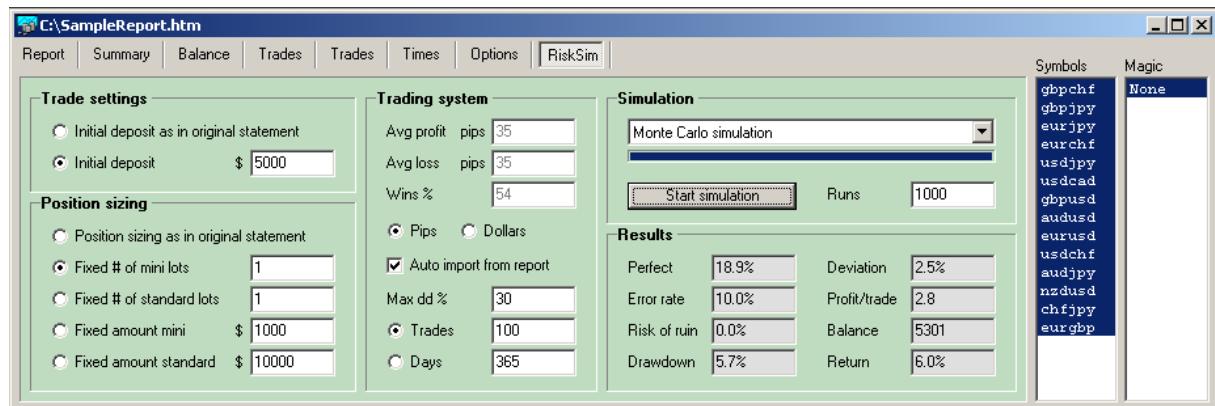
The *Display* section allows you to display either all trades or closed trades only.

From build 1039 onwards, there are some options for CSV exports. It is possible to set the decimal separator to either a comma or a period (i.e. 1,23 or 1.23). You can also set the CSV field separator to either a semicolon (;) or a tab. These settings can be useful when importing CSV file to Excel.

Trade duration is exported using the format hh:mm. If you import a CSV file to Excel, you may want to format the Duration cells in Excel to custom format [u]:mm.

### RiskSim tab

This tab is used for the RiskSim simulator. This simulator will simulate lots of trades, while calculating certain statistics.



RiskSim uses random numbers to determine the outcome of a trade. There is no correlation between simulated trades. However in real-life trading, chances are that trades in *your* trading system are correlated in some way. Also, RiskSim does not use floating loss or margin for calculating statistics. Results from RiskSim may be very different from results in real life. Use RiskSim to learn about your system, but keep in mind that you are responsible for any trading decisions you take.

The *Trade settings* and *Position sizing* sections are the same as in the *Options* tab.

The *Trading system* section allows you to describe the properties of the system you would like to simulate. Only three numbers are necessary for the simulation: average profit of winning trades, average loss of losing trades, and the percentage of winning trades. Profits and losses can be entered in pips or in dollars. If you want to use the numbers of the trades currently in the trades list (depending on which symbols and magic numbers are selected), just click *Auto import from report*.

*Max dd %* is the maximum drawdown you are willing to take. RiskSim will use this to calculate the risk of ruin statistics. You can specify how many trades RiskSim will use for each run. You can specify an exact number of trades, or you can specify a number of days. In this case RiskSim will calculate the number of trades based on information from the current report.

The *Simulation* section is for selecting and running the simulation. The number of *runs* indicates how many times RiskSim should run the number of trades you entered. If *trades* is set to 100, one run consists of 100 trades. If *runs* is set to 1000, a total of 100000 trades will be simulated. The results of the 1000 runs will be averaged and displayed.

#### Monte Carlo simulation

After clicking *Start simulation* RiskSim will start simulating trades based on the specifics you entered. The outcome of every trade is based on random numbers, and the winning percentage you entered. Statistics of the simulation will be displayed in the *Results* section. If the simulation is taking up too much time, just reduce the number of runs. You can do this even when the simulation is already running.

#### Minimum deposit simulation

Use this if you need to know what the minimum deposit should be to safely trade a specific trading system. RiskSim will run simulations, while decreasing your initial deposit. It will do so until the *Risk of ruin* number (explained in the *Results section*) is about zero. This simulation gives most usable results for position sizing with a fixed number of lots. This simulation will not work if the average profit per trade is zero or less.

#### Minimum # of trades simulation

Use this if you need an indication of how many trades you need to complete before the return will be larger than the drawdown you experienced. RiskSim will run simulations, while increasing the number of trades for each run. It will do so until the return is larger than the maximum drawdown. This simulation will not work if the average profit per trade is zero or less.

The *Results* section shows the results of the simulation.

Perfect	<i>Only visible for Monte Carlo simulations.</i> The percentage of runs of which the balance never goes below the initial deposit. This gives an indication of your chance of having drawdown before you start winning.
Min deposit	<i>Only visible for Minimum deposit simulations.</i> The minimum deposit needed for trading a specific trading system, while having a risk of ruin of around zero.
Min trades	<i>Only visible for Minimum trades simulations.</i> The minimum number of trades needed before you can expect to have a return larger than your drawdown.
Error rate	This is an indication of the validity of the results. The error rate is solely dependent on the number of trades. The more trades you use, the lower the error rate is, and the more reliable the results are.
Risk of ruin	This number shows the percentage of runs that had a drawdown larger than the maximum drawdown you entered in the <i>Trading system</i> section. You want this number to be as low as possible.
Drawdown	This is the average drawdown experienced during all simulation runs.
Deviation	This gives an indication of how far the minimum and maximum balance results for all trades of the simulation are apart.
Profit/trade	The average profit per trade. This is calculated (not simulated). $\text{Profit/trade} = (\text{average profit} * \text{wins\%} - \text{average loss} * (100 - \text{wins\%})) / 100$
Balance	The average ending balance of all simulation runs.
Return	The average return percentage of all simulation runs.

## RiskSim simulator example

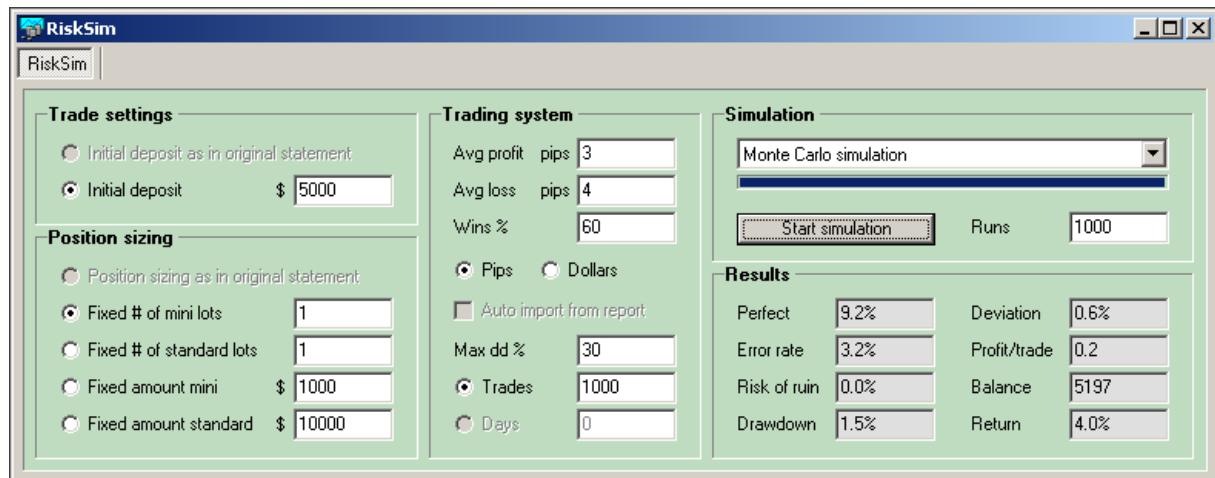
Let's go over an example to show what RiskSim is all about. Let's assume you have \$5000 to trade, and are willing to withstand a maximum drawdown of 30%. Your trading system has the following statistics:

Average win	3 pips
Average loss	4 pips
Percentage wins	60%
Trades per year	1000

Would you trade this system? What would your lot size be? How much would you make per year?

Let's see what RiskSim tells us.

- Start MTReport 4.0 and click the RS button on the toolbar
- Set \$5000 as initial deposit in the *Trade settings* section
- Set 1 fixed # of mini lots in the *Position sizing* section
- Enter the numbers 3, 4, 60, 30 and 1000 in the *Trading system* section
- Select *Monte Carlo simulation* and 1000 runs, and click *Start simulation*



Within seconds RiskSim tells you the return for 1000 trades is about 4%. The ending balance is \$5197, so you would gain between about \$200 after a year of trading. Not very exciting.

The perfect trade number tells us that in about 9% of the simulation runs, the balance was always \$5000 or higher. The risk of ruin of 0% tells us that the drawdown was never as bad as the 30% that we entered. The average drawdown was only about 1.5%. That's not bad.

Note that random numbers are used to determine the outcome of trades, so every time you run the simulation you may have different results. In this case the deviation of about 0.6% tells us that we don't need to worry too much for now. Hover your mouse pointer above the balance box to see the minimum and maximum ending balance of all runs. If the trades from your system are not correlated, you may expect a balance between \$5150 and \$5250 after 1000 trades. You can also hover the mouse pointer above the return, drawdown, and risk of ruin boxes to see the minimum and maximum values.

Let's see what RiskSim tells us about the minimum deposit needed to trade this system

- Select *Minimum deposit simulation*, and click *Start simulation*

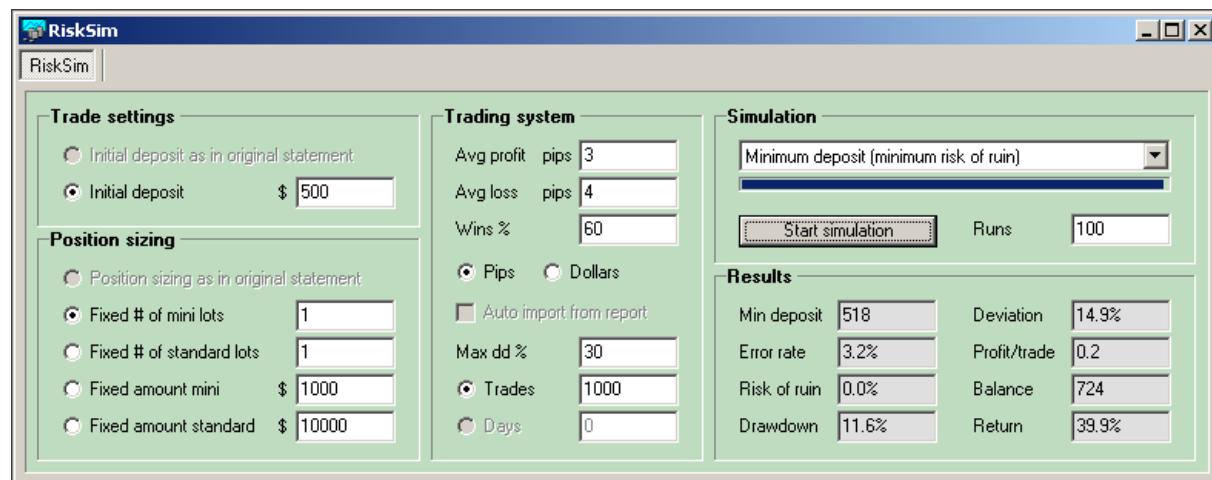
RiskSim will start simulations, and keep simulating while decreasing the initial deposit every run. You may find this to take up too much of your time...

- Change *Runs* to 10 to speed things up

Simulation will go faster, but less runs means a less reliable result. The results section shows that the minimum deposit is around \$400 or \$500. Let's see if this is an accurate estimation.

- Set \$500 as initial deposit in the *Trade settings* section
- Change *Runs* to 100
- Click *Start simulation*

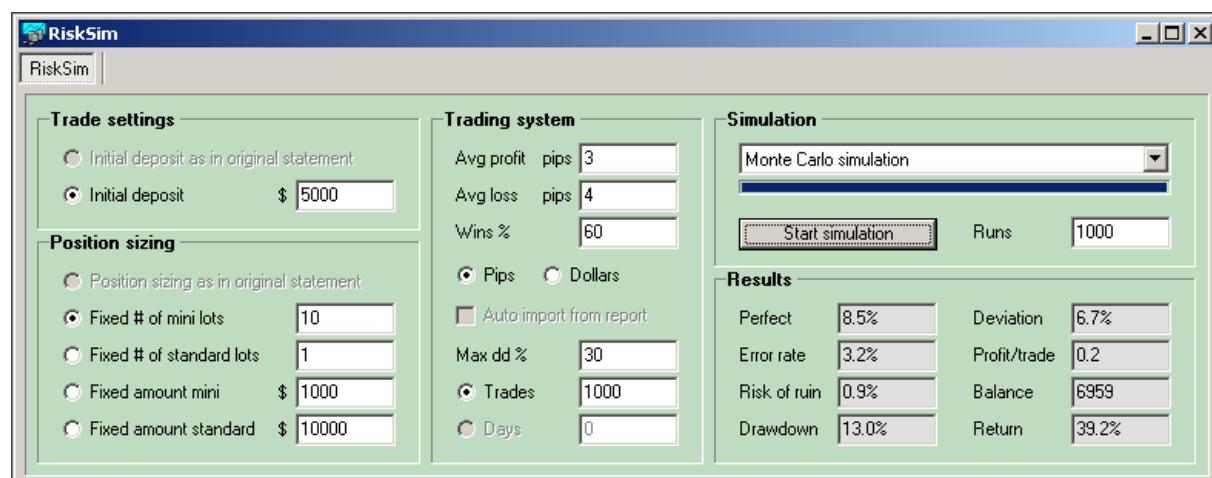
After simulation is ready, the minimum deposit displayed is around \$500.



So, if we would start trading this system with \$500 instead of \$5000, the relative return will be higher (39.9% instead of 4.0%) and the relative drawdown will be higher (11.6% instead of 1.5%). During the test of 100 runs, the risk of ruin was 0.0%, so there was never a drawdown as large as 30%.

Let's see what happens if we trade some more lots.

- Set \$5000 as initial deposit in the *Trade settings* section
- Set 10 fixed mini lots in the *Position sizing* section
- Select *Monte Carlo simulation* and 1000 runs, and click *Start simulation*

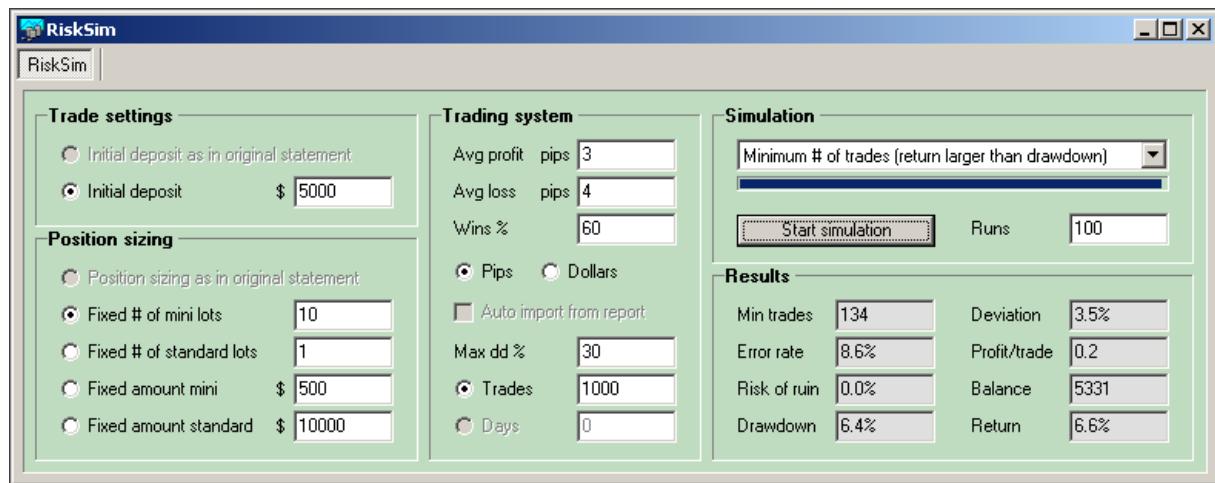


Notice that the relative return and drawdown are about the same as the run with \$500 and 1 mini lot. This is exactly what we would expect.

Also notice that the risk of ruin is 0.9%, meaning that in 9 of 1000 runs we experienced a drawdown of 30% or more. This is still acceptable, since we are running this test with a deposit slightly below the minimum. Try the *Minimum deposit* simulation again, to confirm that \$5000 is enough to trade 10 mini lots. Also try to use 1 standard lot, which should give the same result.

The minimum deposit needed to trade 1 mini lot was about \$500. You could also try to trade 1 mini lot per \$500. Set *Fixed mini amount* to \$500, check the appropriate radio button, and start the simulation. You will notice that the return will be a little bit more, because of the compounding.

Let's go back to 10 mini lots per trade, and select the *Minimum trades* simulation with runs set to 100. This will take some time, but after completion it will show a minimum number of trades between 100 and 200. So what does that mean?



On average it will take between 100 and 200 trades before the return is higher than the drawdown you already experienced. Many traders will stop trading a profitable system if they do not see profits soon enough.

Let's say you start trading this system, and after two weeks (about 40 trades) you are down some \$200. Hey! What's this? I thought this was a winning system? Sure, but there's a fat chance that you will lose before you start winning. The perfect percentage is around 15%, meaning that in about 85% of cases you will, at some point in time, experience a balance below \$5000. And a 4% drawdown is well within the expected range. Without RiskSim, you may have decided to quit trading the system because of some drawdown. However, RiskSim tells us to continue trading, because the system is profitable and performing as could be expected.

Use RiskSim to learn about your system, to reconsider your objectives and your willingness to accept drawdown. Keep in mind that RiskSim is a simulator, and uses random uncorrelated trades. The trades in your live account are probably correlated in some way. This is especially the case with the so-called grid systems and martingale-based systems. Winners and losers tend to come in groups, because of trends and ranging markets. RiskSim's trades are not affected by these market conditions.

Trading is not only about entries and exits, but also about position sizing and expectancy. RiskSim will help you evaluate these aspects of your trading system, but keep in mind that *you*, and *you alone*, are responsible for your trading decisions.

## **Adding reports**

Many FX brokers offer demo accounts that only last a couple of weeks. You definitely want to demo trade your system longer than that, before going live. RiskSim offers the possibility of adding reports together. By adding several consecutive demo reports, you can create a single report for a much longer demo period.

MetaTrader's StrategyTester will simulate trading systems for a single currency pair. You could create several test reports for different currencies, and add these reports to create a single multi-currency test report.

Adding reports is simple. Choose *File -> Open report* from the menu to load any report. Then choose *File -> Add report* and select another report. The second report will be added to the first. Trades in the report are sorted by closing date/time.

Keep in mind that large reports will take a long time to load. StrategyTester reports need even more time to load because StrategyTester trades are described in several lines. Also, a StrategyTester could easily have thousands of trades in it, which will slow down the loading of the report.

## **Exporting a report**

If you have changed a report in any way, you may want to save the changed report. Also, you may want to do some extra analysis of your trading in another program, for instance Microsoft Excel.

Choose *File -> Export report* from the menu to save your report as a htm file. You can open this new report with your browser or with MTReport 4.0. The exported report will look similar to the reports generated by MetaTrader.

Choose *File -> Export report with graph* to save the report with a graph of the balance. A htm file and a jpg will be created. The exported report will look similar to the detailed reports as generated by MetaTrader.

Choose *File -> Export as csv (Excel)* to save your trades in a CSV file, which can be imported in programs like Excel. Fields in the file can be separated either by semicolons or by tabs. Use the options tab to select the separation character.

Trade duration is exported using the format hh:mm. If you import a CSV file to Excel, you may want to format the Duration cells in Excel to custom format [u]:mm.

## **Purchase MTReport 4.0**

You can buy a licence to use MTReport 4.0 through the website [www.mt4tools.com](http://www.mt4tools.com). Please check the website for current pricing.

First download MTReport 4.0 from the website, and install it on your computer system. Without purchasing you can start the program in 5 times, so you have an opportunity to test it. If you like the program, you may want to purchase a license to remove the

To purchase a license, click the appropriate button on the website. You will be taken to an external page to complete your payment. After the payment has completed successfully, you will receive an email with an activation code.

Start MTReport 4.0 and select *Help->Activate* from the menu. This will work, even if your trial has expired. Enter your email address and activation code, to activate your registration. You can now use MTReport 4.0.

**Please note that a license for MTReport 4.0 is valid for a single computer only.**

MTReport 4.0 will only work on the computer you used to activate your registration. If you need to run the software on more than one computer, you need to buy extra licenses.

**Please note that you need internet access to run MTReport 4.0.**

MTReport 4.0 will access an authorisation server on the internet, every time you start the program. The program will not run if you do not have internet access.

## **Frequently asked questions**

with answers...

### ***After starting MTReport 4.0 a message appears: Cannot connect to internet...***

MTReport 4.0 needs to connect to the authorisation server to check if you are registered or running in trial mode. If it cannot connect to the authorisation server, MTReport will exit.

### ***In the summary, the return and drawdown percentages are missing...***

This is because there is no deposit in the report, so the initial balance is unknown. Select the *Options* tab, check *Initial deposit*, and enter the deposit manually.

### ***What are 'per lot' pips...***

The pips (per lot) in the summary are calculated by subtracting the open and close prices from the trades, and do not depend on the number of lots traded.

### ***After starting MTReport 4.0 a message appears: Software has been compromised...***

The MTReport executable has been altered, possibly by a virus. Please use your virus checker, and download the original software from the website [www.mt4tools.com](http://www.mt4tools.com). If you have registered MTReport, your license will still be valid.

### ***After starting MTReport 4.0 a message appears: Not enough rights to create or delete file...***

MTReport 4.0 uses temporary files that are stored in the directory where the program resides. Make sure you have rights to create, write, and delete files.

### ***My report will not load, or will not load correctly...***

Make sure the report is generated directly by MetaTrader. Do not use Word or any html-editor to change the report. It is not possible to load the daily or monthly reports sent by your broker. If you think you have found an error in MTReport, please send the statement to [support@mt4tools.com](mailto:support@mt4tools.com). Make sure to attach the statement as a separate file to your email.

### ***Some reports take a long time to load...***

Most reports load within seconds. However, reports with thousands of trades can take some time. Keep in mind that MetaTrader never intended their reports to be processed like MTReport 4.0 does. Especially StrategyTester can take a long time to load, because every trade is described in at least two lines, one for opening the trade, one for closing, and possibly several lines to change the exit criteria. All these lines have to be combined into one. When your report contains several thousands of trades, this will take some time.

### ***When adding StrategyTester reports, some of the order numbers are changed...***

Order numbers from StrategyTester always start with one. When combining reports, the numbers have to be made unique for the software to function properly.

### ***My computer crashed and I had to install Windows again, but now MTReport is in trial mode...***

Sorry to hear your computer crashed. Please go to the Support section on [www.mt4tools.com](http://www.mt4tools.com) to request a new activation code. After entering your email address, you will receive a message with further instructions. Since this is an automated process, you should be up and running within minutes. Please note an activation code request will only work if you have purchased MTReport 4.0 in the past.

### ***When loading a report, an error 'Please use ascending ticket numbers' is displayed...***

Make sure that the StrategyTester results in MetaTrader have ascending ticket numbers. In MetaTrader, click on the # on the top bar of the results list to select either ascending or descending order.

### ***If have another problem / question / suggestion...***

Please let me know at [support@mt4tools.com](mailto:support@mt4tools.com).

## **Disclaimer**

### **General disclaimer**

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